**Shared Switches for Wires Ha, Hd and Hg**

Switch[] switches = new Switch[6]

Horizontal Wires Ha, Hd and Hg

horizontalWires[Ha] = new Wire(0, 0, switches);

horizontalWires[Hd] = new Wire(0, 1, switches);

horizontalWires[Hg] = new Wire(0, 2, switches);

Fig. 1

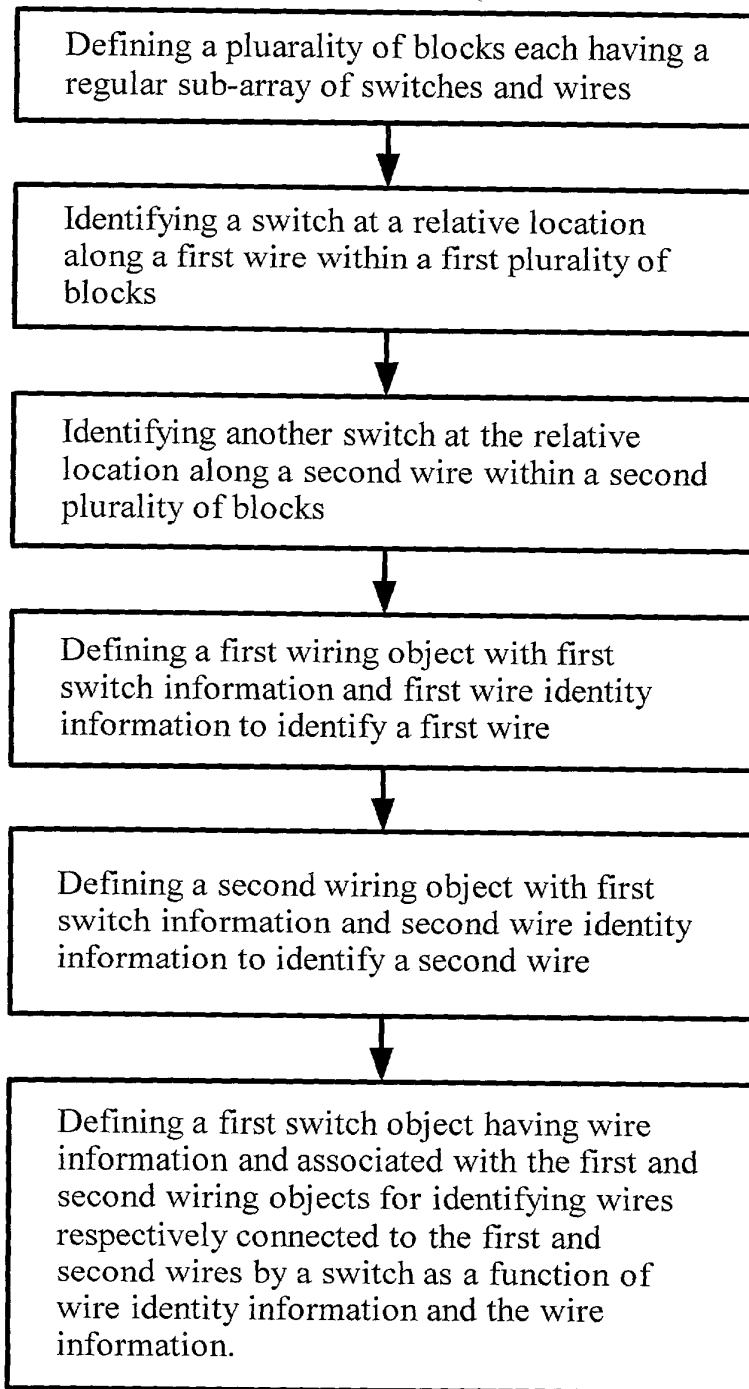


Fig. 2